SEQUENCE LISTING

<110> Cai, Hong
       Keller, Richard
       Werner, James
       Goodwin, Peter

<120>   RAPID HAPLOTYPING BY SINGLE MOLECULE DETECTION

<130>   S-94,652

<140>   US 09/862,855
<141>   2001-05-21

<160>   21

<170>   PatentIn version 3.1

<210>   1
<211>   20
<212>   DNA
<213>   Unknown
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<223>   20-mer probe complementary to 20 base pair region of M13mp18 target
containing EcoR I restriction site

<400>   1
gctcgaattc gtaatcatcg   20

<210>   2
<211>   18
<212>   DNA
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<223>   18-mer probe complementary to 18 base pair region of M13mp18 target
containing Hind III restriction site

<400>   2
cagtgccaag cttcgatg   18

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<223>   Synthetic chimera template derived from genes MLL(HRX,Htrx) and AF4(FEL)

<400>   3
gaagttccca aaaccactcc tagtgagccc aagaaaaagc agcctccacc accaaaacaa   60

tatgatacat cttcaaaaac tcactcaaat tctcagc   97

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<223>  DNA probe sequence complementary to MLL portion of SEQ ID NO:3

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aaaaatttct tgggcttcac tagggag                                            27


<210>  5
<211>  29
<212>  DNA
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<223>  DNA probe sequence complementary to AF4 portion of SEQ ID NO:3

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aaaaaaattt gagtgagttt ttgaagatg                                          29


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<211>  12
<212>  DNA
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<223>  PNA probe sequence for MLL portion of SEQ ID NO:3

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tttcttgggc tc                                                            12


<210>  7
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tttgagtgag tt                                                            12


<210>  8
<211>  12
<212>  DNA
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<223>  LNA probe sequence for MLL portion of SEQ ID NO:3

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variant for the HLA gene

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<210> 11
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cgcagatacc tggaga   76

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variant for the HLA gene

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variant for the HLA gene

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<400> 17
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cgcagatacc tggaga   76

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variant for the HLA gene

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variant for the HLA gene

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cgcagatacc tggaga   76